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November 12, 2004

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUBJECT: Applicants: Ash et al.
Serial No: 10/632,717
Filed: August 1, 2003
For: BOREHOLE NAVIGATION SYSTEM
Examiner:
Group No: 2862
Confirm. No: 2798
Docket No: DR-356J

Dear Sir:

Pursuant to 37 CFR §1.56, enclosed are an Information Disclosure Citation for the subject Application that cites twenty-four (24) references, Form PTO-A820, and a copy of the one (1) cited non-U.S. patent publications.

This Information Disclosure Citation is timely filed and should be considered as it is filed before the mailing date of the first Office Action on the merits of the subject application pursuant to 37 CFR §1.97(b)(3).

If at any time it appears that a TELEPHONE CONFERENCE with counsel would help advance prosecution, please telephone the undersigned, or his associates, collect in Waltham, Massachusetts, at (781) 890-5678.

In addition, pursuant to Rule 1.136(a)(3), the Office is hereby authorized to treat any future reply requiring an extension of time as incorporating a request therefor. Also, any request or Petition for an Extension of Time, notwithstanding an inadvertent reference in the Petition to a shorter period of time, is to be treated as requesting the appropriate length of time.

Commissioner for Patents
November 12, 2004
Page 2

If any payment during prosecution is found to be incorrect, please charge any deficiency or credit any overpayment to my Deposit Account No. 09-0002. A copy of this letter is enclosed for use by the Finance Branch in the event that it is necessary to make any charge or credit to my deposit account.

Kindly acknowledge receipt of the foregoing by returning the enclosed self-addressed postcard.

Sincerely,



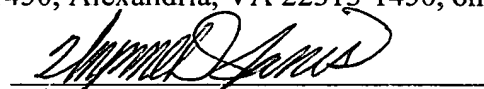
David W. Poirier
Reg. No. 43,007

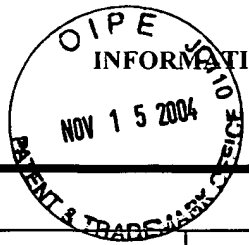
DWP:wj
Enclosures

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

November 12, 2004.


Wynne D. Janis



Docket Number DR-356J		Application Number 10/632,717	
Applicants Ash et al.			
Filing Date August 1, 2003		Art Unit 2862	

U.S. PATENT DOCUMENTS

*EXAMINER INITIALS	REF	DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	FILING DATE IF APPROPRIATE
	1	6,778,908 B2	08/17/2004	Ash et al.	
	2	6,548,321	04/15/2003	Sawyer	
	3	6,347,282 B2	02/12/2002	Estes et al.	
	4	6,267,185 B1	07/31/2001	Mougel et al.	
	5	6,216,804 B1	04/17/2001	Aumann et al.	
	6	6,151,553	11/21/2000	Estes et al.	
	7	5,806,195	09/15/1998	Uttecht et al.	
	8	5,657,547	08/19/1997	Uttecht et al.	
	9	5,432,699	07/11/1995	Hache et al.	
	10	5,396,326	03/07/1995	Knobbe et al.	
	11	5,349,855	09/27/1994	Bernstein et al.	
	12	5,156,056	10/20/1992	Pittman et al.	
	13	5,126,812	06/30/1992	Greiff	
	14	4,987,684	01/29/1991	Andreas et al.	
	15	4,756,088	07/12/1988	Russell et al.	
	16	4,696,112	09/29/1987	Hoffman	
	17	4,594,790	06/17/1986	Engebretson	
	18	4,537,067	08/27/1985	Sharp et al.	
	19	4,454,756	06/19/1984	Sharp et al.	
	20	4,071,959	02/07/1978	Russell et al.	
	21	4,052,654	10/04/1977	Kramer et al.	
	22	3,883,788	05/13/1975	Storey, Jr.	

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION

Docket Number

DR-356J

Application Number

10/632,717

Applicants

Ash et al.

Filing Date

August 1, 2003

Art Unit

2862

U.S. PATENT DOCUMENTS

*EXAMINER INITIALS	REF	DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	FILING DATE IF APPROPRIATE
	23	3,079,696	03/05/1963	van Rooyen	

FOREIGN PATENT DOCUMENTS

	REF	FOREIGN DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	Translation	
					YES	NO
	24	WO 03/031912 A2	04/17/2003	WIPO		

EXAMINER

DATE CONSIDERED

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